

Abstract

A satellite video on demand system and method provide videos or other files on demand using a satellite in earth orbit. The satellite includes at least one uplink and multiple downlinks to multiple cells distributed over a geographic region. Multiple requests for video files from multiple users in multiple cells in the geographic region are received at a control station. The requests may include multiple requests from users in multiple cells for a first video file, and multiple other requests for one or more other video files from other users. The requests for the first video file are accumulated over a time period, and at least portions of the other video files are transmitted to the other users via the satellite during the time period. After the time period, the first video file is transmitted to the users who requested it with simultaneous transmissions over the satellite.